



Høgskolen i Telemark

EXAM
4501 002 Alpine ecology

19.11.2015

Time/Tid:	4 hours
Language:	English
No pages:	1 + front page
Comment:	Dictionaries are allowed
Appendix:	None

Exam results will be available on net via Studentweb



Questions

- 1 Describe the main criteria we can use for delimitation of the following vegetation zones:
 - a) Northern Boreal zone
 - b) Low Alpine zone
 - c) Middle Alpine zone
 - d) High Alpine zone

- 2
 - a) Describe ecological differences related to different aspects (north and south) in mountain areas.
 - b) Describe how important environmental variables change with increasing elevation.

- 3
 - a) What are the main biological and environmental differences between the alpine, the arctic, and the boreal biomes?
 - b) Describe effects moth attacks in *Betula* forest ecosystems in N Fennoscandia

- 4
 - a) Describe important ecological factors that affect the reindeer population on the Hardangervidda mountain plateau.
 - b) Describe biological and environmental factors characteristic for alpine lakes in Norway.

- 5
 - a) Describe direct and indirect effects of snow in alpine areas.
 - b) What are the main characteristics of plants that are able to live in areas with a long-lasting snow cover (snow-beds)?